

Work Order ID 134582

July-09-15 1:48:39 PM

134582

Page 1

Item ID: D412-761-112 Accept *N900040100* Setup Start *NS1*
 Revision ID: Stop *NS2*
 Item Name: Wiring Harness Required 412
 Start Date: 7/09/15 Start Qty: 1.00 *1* Cust Item ID:
 Required Date: 7/23/15 Req'd Qty: 1.00 *1* Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start *NR1*
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
D412-761-112	B

100 0.00
 100
 DC Memo 0.00
 Doc.Control -USB or Paperwork Photocopy bluefile and create labels as per PPP D412-761-112 chg 001

 DAS
42
9-89 JUL 17 2015

105 0.00
 105
 Purchasing Memo 0.00
 Purchasing ISSUE P/O: 29081
 POSSIBLE SUPPLIER:EAGLE
 C OF C REQUIRED

 DAS
42
9-89 JUL 17 2015

110 0.00
 110
 Packaging Memo 0.00
 Packaging

 DAS
42
9-89 JUL 17 2015

Work Order ID 134582

July-09-15 1:48:39 PM

134582

Page 2

Item ID: D412-761-112

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Wiring Harness Required 412

Start Date: 7/09/15 Start Qty: 1.00

1

Cust Item ID:

Required Date: 7/23/15 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start ***NR1***Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120	QC5- Inspect part completeness to step on W/O	0.00							
120							DAS		
QC	Memo	0.00					42		
Quality Control							9-89		JUL 17 2015
130		0.00							
130							DAS		
Packaging	Memo	0.00					42		
Packaging	Identify and pack for shipping as per PPP D412-761-112						9-89		JUL 17 2015
	Location: _____								
	PPP Rev: _____								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control						MLS			JUL 17 2015

WIS 07-15

Picklist Print

Page 1

July-09-15 1:48:55 PM

Work Order ID: 134582

134582

Parent Item: D412-761-112

D412-761-112

Parent Item Name: Wiring Harness Required 412

Start Date: 7/09/15

Required Date: 7/23/15

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:C 13.01.15 as per ECN13-511 DD Verf:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

D412-761-112P

Purchased

No

Each

0.0000

**

D412-761-112P

Wiring Harness Required 412

1
DAS
42 JUL 17 2015
9-89

Work Order ID 134582

134582

Page 1

Item ID: D412-761-112

Accept

N900040100

Setup Start

NS1

Revision ID:

Item Name: Wiring Harness Required 412

Stop

NS2

Start Date: 7/09/15 Start Qty: 1.00

1

Cust Item ID:

Required Date: 7/23/15 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

D412-761-112

B

100

0.00

100

DC

Memo

0.00

Doc.Control -USB or Paperwork

Photocopy bluefile and create labels as per PPP D412-761-112 chg 001

105

0.00

105

Purchasing

Memo

0.00

Purchasing

ISSUE P/O: 29081
POSSIBLE SUPPLIER:EAGLE
C OF C REQUIRED

W 1507.09

110

Receive & Inspect for Damage & Mat'l Certs

0.00

110

Packaging

Memo

0.00

Packaging

July-09-15 1:48:39 PM

Page 2

Setup Start *NS1*

Stop *NS2*

Cust Item ID:

Customer:

Run Start *NR1*

Stop *NR2*

Quality Control



DAS
42
9-89

JUL 17 2015



DAS
42
9-89

JUL 17 2015

CERTIFICATE OF CONFORMITY

Eagle Copters Maintenance Ltd.

823 McTavish Rd. NE
Calgary, AB T2E 7G9
CANADA
Ph: 403-250-7370, Fax: 403-250-7110
kcopiak@eaglecopters.com



18-200 Quick Connector
LED-40-17-HK-35402 Annunciator, Master Caution
LED-40-17-HK-E05HM Annunciator, Engine Fire 1
LED-40-17-HK-E05HN Annunciator, Engine Fire 2
M22759/41-20-9 Wire, 20 AWG
M22759/41-22-9 Wire, 22 AWG
M27500-22SD2T23 CABLE, 22 AWG, 2 CONDUCTOR, SHIELDED
M81824/1-1 Splice, Red
M85049/49-2-08W Backshell
M85049/52S-10N Backshell
M85049/52S-20W Backshell
M85049/52S-8N Backshell
MS27474T8B-35P Connector, Recptacle
MS27484T8B-35S Connector, Plug
MS3471L10-6P Connector, Recptacle
MS3471L10-6PW Connector, Recptacle
MS3471L8-33P Connector, Recptacle
MS3471L8-33PW Connector, Recptacle
MS3474W20-41P Connector, Receptacle
MS3475L10-6S Connector, Plug
MS3475L10-6SW Connector, Plug
MS3476L10-6S Connector, Plug
MS3476L8-33S Connector, Plug
MS3476L8-33SW Connector, Plug
MS3476W20-41S Connector
XPF-1/2 EXPANDABLE SLEEVING, BLACK
XPF-1/4 EXPANDABLE SLEEVING, BLACK
XPF-3/4 EXPANDABLE SLEEVING, BLACK, 3/4"
XPF-3/8 EXPANDABLE SLEEVING, BLACK

Part No.	Description	QTY	UOM	CON	SIC	Control
D412-761-112P	VRD Harness Tripple Torque	FN	1	EA	1	2051

We hereby certify that the parts in this shipment conform with applicable specifications and that documentation and/or data is on file and available for examination.

Signed: _____

For and on behalf of Eagle Copters Maintenance Ltd.

Inspectors Stamp



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1

LIST OF MATERIALS				
1	AR	MS3471L10-6P	CONNECTOR, RECEPTACLE (5M7J1/8J1)	
2	AR	M39029/4-110	CONTACTS, PINS	
3	AR	M85049/52S-10N	BACKSHELL	
4	AR	MS3476L10-6S	CONNECTOR, PLUG (5M7P1A)	
5	AR	M39029/5-115	CONTACTS, SOCKETS	
6	AR	MS3471L8-33P	CONNECTOR, RECEPTACLE (5M7J3)	
7	AR	M85049/52S-8N	BACKSHELL	
8	AR	MS3476L8-33S	CONNECTOR, PLUG (5M7P3A)	
9	AR	MS3471L8-33PW	CONNECTOR, RECEPTACLE (5M7J2)	
10	AR	MS3476L8-33SW	CONNECTOR, PLUG (5M7P2A)	
11	AR	MS3471L12-10P	CONNECTOR, RECEPTACLE (5M8J1)	
12	AR	M85049/52S-12N	BACKSHELL	
13	AR	MS3476L12-10S	CONNECTOR, PLUG (5M8P1A)	
14	AR	MS3471L12-10PW	CONNECTOR, RECEPTACLE (5M8J2)	
15	AR	MS3476L12-10SW	CONNECTOR, PLUG (5M8P2A)	
16	1	LED-40-17-HK-35402	ANNUNCIATOR (MASTER CAUTION)	VIVISUN
17	1	LED-40-17-HK-E05HM	ANNUNCIATOR (ENGINE FIRE 1)	VIVISUN
18	1	LED-40-17-HK-E05HN	ANNUNCIATOR (ENGINE FIRE 2)	VIVISUN
19	3	18-200	QUIK-CONNECTOR, PLUG	VIVISUN
20	1	MS3474W20-41P	CONNECTOR, RECEPTACLE (J1008)	
21	1	MS3476W20-41S	CONNECTOR, PLUG (P1008)	
22	2	M85049/52S-20W	BACKSHELL	
23	AR	MS3475L10-6S	CONNECTOR, PLUG (5M8P1A)	
24	AR	MS3471L10-6PW	CONNECTOR, RECEPTACLE (5M8J2)	
25	AR	MS3475L10-6SW	CONNECTOR, PLUG (5M8P2A)	
26	AR	MS27474T8B-35P	CONNECTOR, RECEPTACLE (5M8P3)	
27	AR	M39029/58-360	CONTACTS, PIN	
28	AR	M85049/49-2-08W	BACKSHELL	
29	AR	MS27484T8B-35S	CONNECTOR, PLUG (5M8P3A)	
30	AR	M39029/57-354	CONTACTS, SOCKET	
31	1	D3705-11	INSTRUMENT FACE PLATE	DART AEROSPACE
32	1	18-258	PANEL PLUG, BLACK	VIVISUN

W/O 134582

NEW WIRE / UNIT

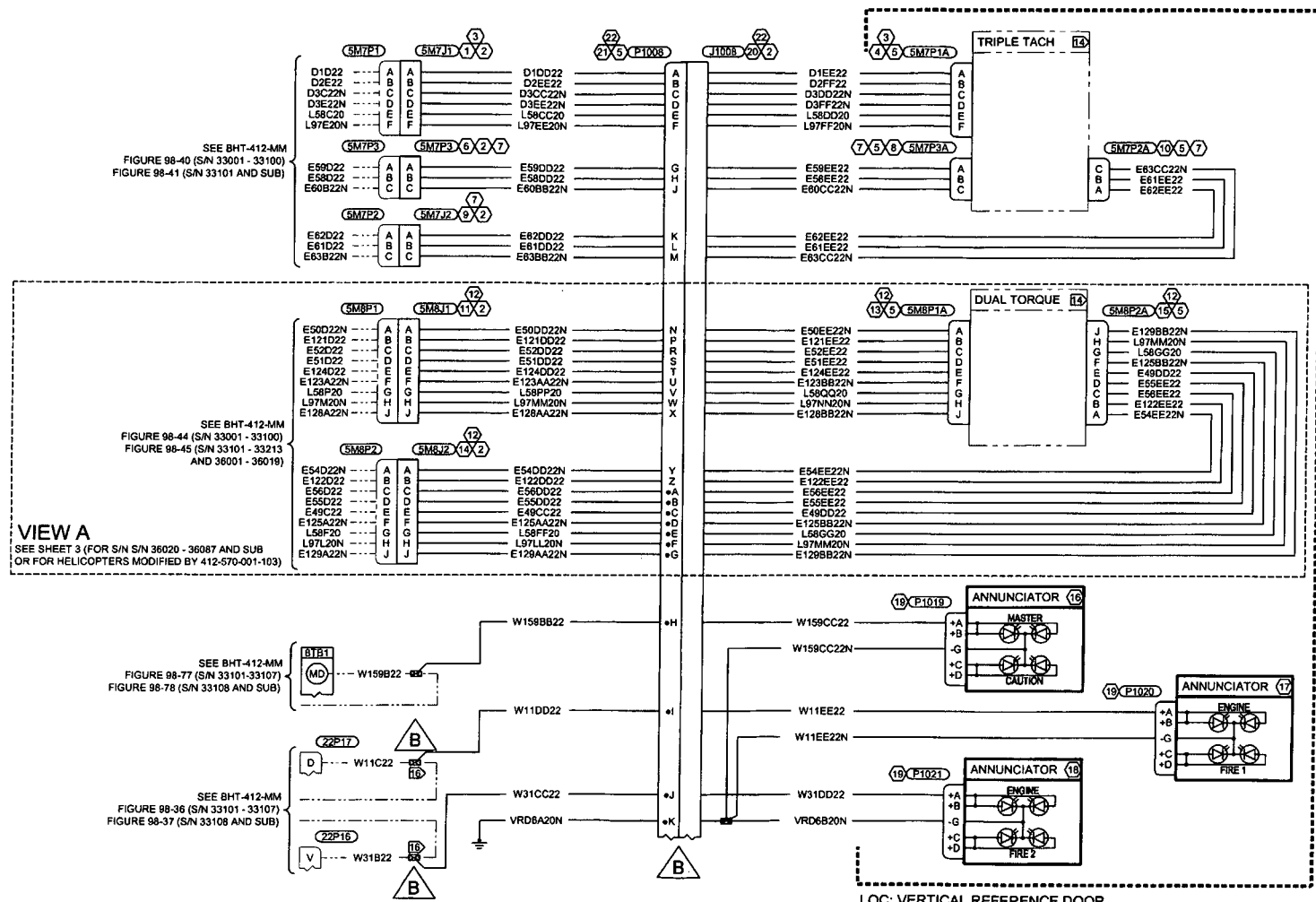
EXISTING WIRE / UNIT

NOTES:

1. ALL NEW UNSHIELDED WIRE USE M22759/41-xx-9 TYPE WIRE UNLESS OTHERWISE SPECIFIED.
2. ALL NEW TWISTED SHIELDED CABLE USE M27500-xxSMxT23 TYPE CABLE UNLESS OTHERWISE SPECIFIED.
3. ALL WIRES 22 AWG UNLESS OTHERWISE SPECIFIED.
4. IDENTIFY/CODE ALL WIRES AND CABLES IN ACCORDANCE WITH BHT-ELEC-SPM CHAPTER 3.
5. KEEP ALL JUMPERS, SHIELD GND'S AND LOGIC STRAP WIRES AS SHORT AS POSSIBLE.
6. KEEP ALL POWER AND CHASSIS GROUND WIRES AS SHORT AS POSSIBLE.
7. ALL SPLICES MUST CONFORM TO MIL-S-81824, OR EQUIVALENT AND BE INSTALLED IN ACCORDANCE WITH BHT-ELEC-SPM CHAPTER 4.
8. ALL TERMINALS TO BE INSTALLED IN ACCORDANCE WITH BHT-ELEC-SPM CHAPTER 4.
9. ALL ELECTRICAL GROUNDING AND BONDING TO BE CARRIED OUT PER BHT-ELEC-SPM CHAPTER 8.
10. PROVIDE SEPARATE GROUND STUD LOCATIONS FOR DC POWER GROUNDS, AC POWER GROUNDS, CHASSIS GROUNDS, SIGNAL GROUNDS AND SHIELD GROUNDS.
11. ALL CONNECTORS TO BE INSTALLED IN ACCORDANCE WITH BHT-ELEC-SPM CHAPTER 5.
12. ENSURE ALL UNUSED CONNECTOR CONTACTS ARE FILLED WITH SPARE PINS/ SOCKETS OR PLASTIC GROMMET SEALING PLUGS.
13. ROUTE ALL WIRES AND CABLES WITH EXISTING WIRE AND CABLE RUNS IN ACCORDANCE WITH BHT-ELEC-SPM CHAPTER 6.
14. REMOVE INDICATOR FROM CO-PILOTS INSTRUMENT PANEL AND INSTALL IN VERTICAL REFERENCE DOOR.
15. A DOT (*) BEFORE A CONNECTOR CONTACT LETTER DENOTES LOWER CASE.
16. IT IS PERMISSIBLE TO RUN WIRES W11D022 AND W31CC22 TO TERMINAL BLOCK 27TB1 INSTEAD OF SPLICING AS SHOWN.

B	CHANGED PIN DESIGNATIONS AT PJ1008	DJR	12.03.21
A	NEW ISSUE	KB	08.11.06
REV.	DESCRIPTION	BY	DATE
DESIGN	KB	DART AEROSPACE LTD	
DRAWN	MB	HAWKESBURY, ONTARIO, CANADA	
CHECKED	KB	DRAWING NO.	REV. B
MFG. APPR.	GR	D412-761-112	SHEET 1 OF 3
APPROVED	#	TITLE	SCALE
DE APPR.	#	VRD - REQUIRED WIRING	NTS
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8 7 6 5 4 3 2 1



ELECTRICAL WIRING DIAGRAM
BELL MODEL 412 (S/N: 33101 THROUGH 36087 AND SUB)
PART NUMBER: D412-761-112

DESIGN	15	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	15		
CHECKED	15	DRAWING NO.	REV. B
MFG. APPR.	GR	D412-761-112	SHEET 2 OF 3
APPROVED	15	TITLE	SCALE
DE APPR.	15	VRD - REQUIRED WIRING	NTS
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DATE	12.03.21	